

Listing of Claims

1. ~9 (Canceled)

10. (New) A computer server system, comprising
a pluggable service delivery system that supports access to different types of
backend services by different types of computing devices, the pluggable service delivery
system comprising:

a memory system to store programming instructions that are executable to
implement a device abstraction layer, a kernel service engine, and a service abstraction
layer; and

a processing system that executes the stored programming instructions to:

(i) implement the device abstraction layer to (1) receive service
requests from different types of computing devices, (2) transform the
received service requests into XML requests that are sent to and processed
by the kernel service engine and (3) transform XML documents, which are
received from the kernel service engine in response to the XML requests,
into device specific formats supported by the computing devices;

(ii) implement the kernel service engine to control access to different types
of services through the service abstraction layer and to provide an XML interface
between the device abstraction layer and the service abstraction layer; and to

(iii) implement the service abstraction layer to (i) enable seamless
access to the different types of services through invocation of backend data
sources through service wrappers, wherein each service wrapper provides a
standard interface to a corresponding one of the different types of services
and (ii) transform data accessed from backend data sources into XML
formatted documents.

11. (New) The computer server system of claim 10, wherein the kernel service
engine is a synchronized service engine and an asynchronous service engine.

12. (New) The computer server system of claim 10, wherein the device abstraction layer transforms an XML document to one of a plurality of different kinds of data formats supported by the computing device based on a device style sheet.

13. (New) The computer server system according to claim 10, wherein the device abstraction layer provides a corresponding gateway for each of the computing devices for transforming between different communication protocols.

14. (New) The computer server system according to claim 10, wherein the kernel service engine includes a profile manager to manage user, device, and service information.

15. (New) The computer server system according to claim 10, wherein the kernel service engine transfers user, device, and service information between the services and devices.

16. (New) The computer server system according to claim 10, wherein the kernel service engine comprises:

- a runtime layer to provide online information access;
- an administrative layer to add and delete user, device, and service information; and
- a development layer to provide support for addition of new services and devices supported by the platform.

17. (New) The computer server system according to claim 16, wherein the administrative layer adds a new device by generating a device profile.

18. (New) The computer server system according to claim 16, wherein the administrative layer adds a new service by generating a service profile.

19. (New) The computer server system according to claim 10, wherein the kernel service engine comprises a billing interface and a platform runtime monitor.